

# **A Short Summary of Water Management in South Miami-Dade County**

## **FEDERAL PROJECTS**

**The C. & S. F. Project**  
(Flood Control Act of 1954)

**The South Dade County Plan**  
(Senate Document 138, 1962)

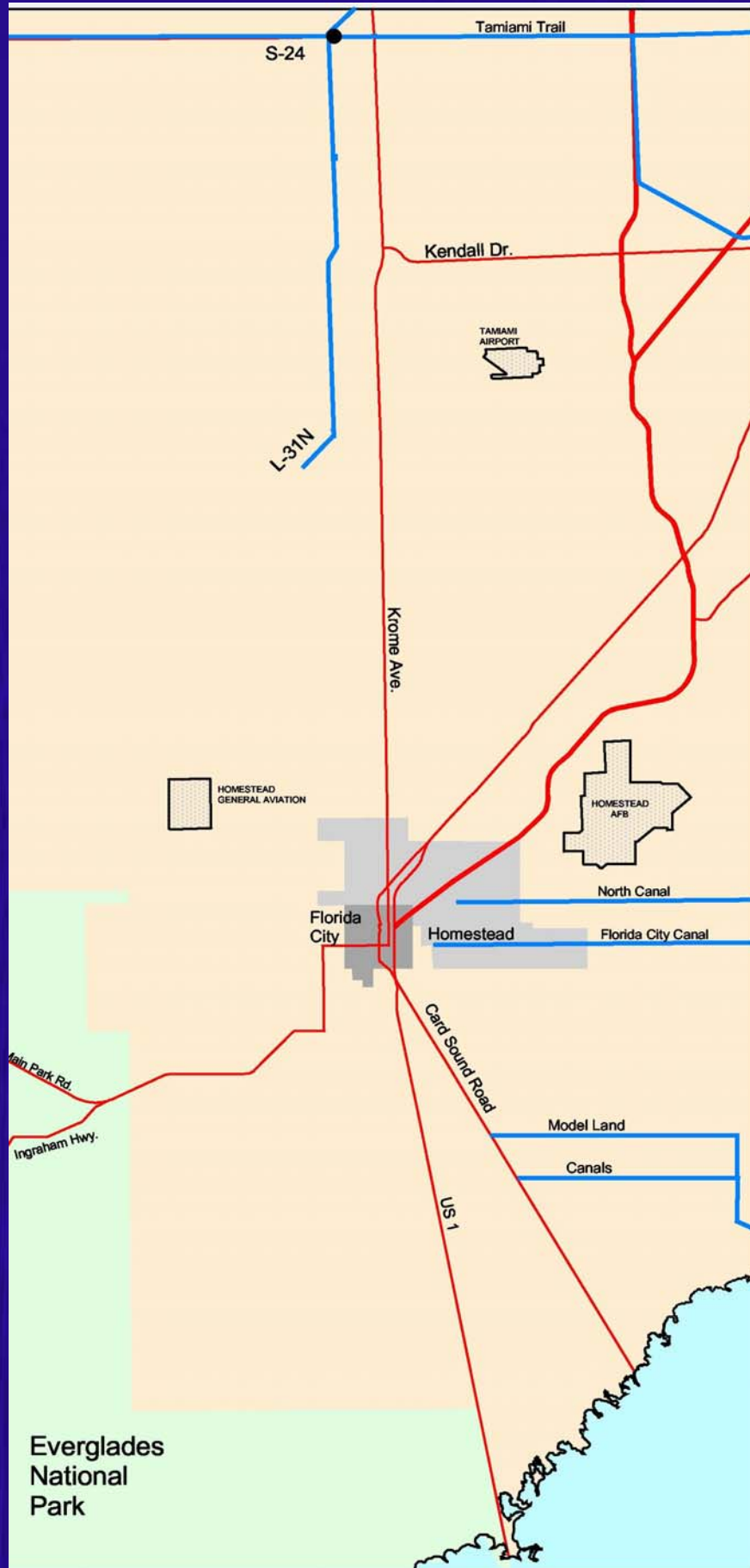
**The South Dade Conveyance System**  
(House Document 369, 1968)

**Everglades National Park Expansion**  
(Public Law 101-299, 1989)

**C-111 General Reevaluation Report**  
(Approved by Chief of Engineers, 1994)

# Canal System from 1953-1965

## Early System

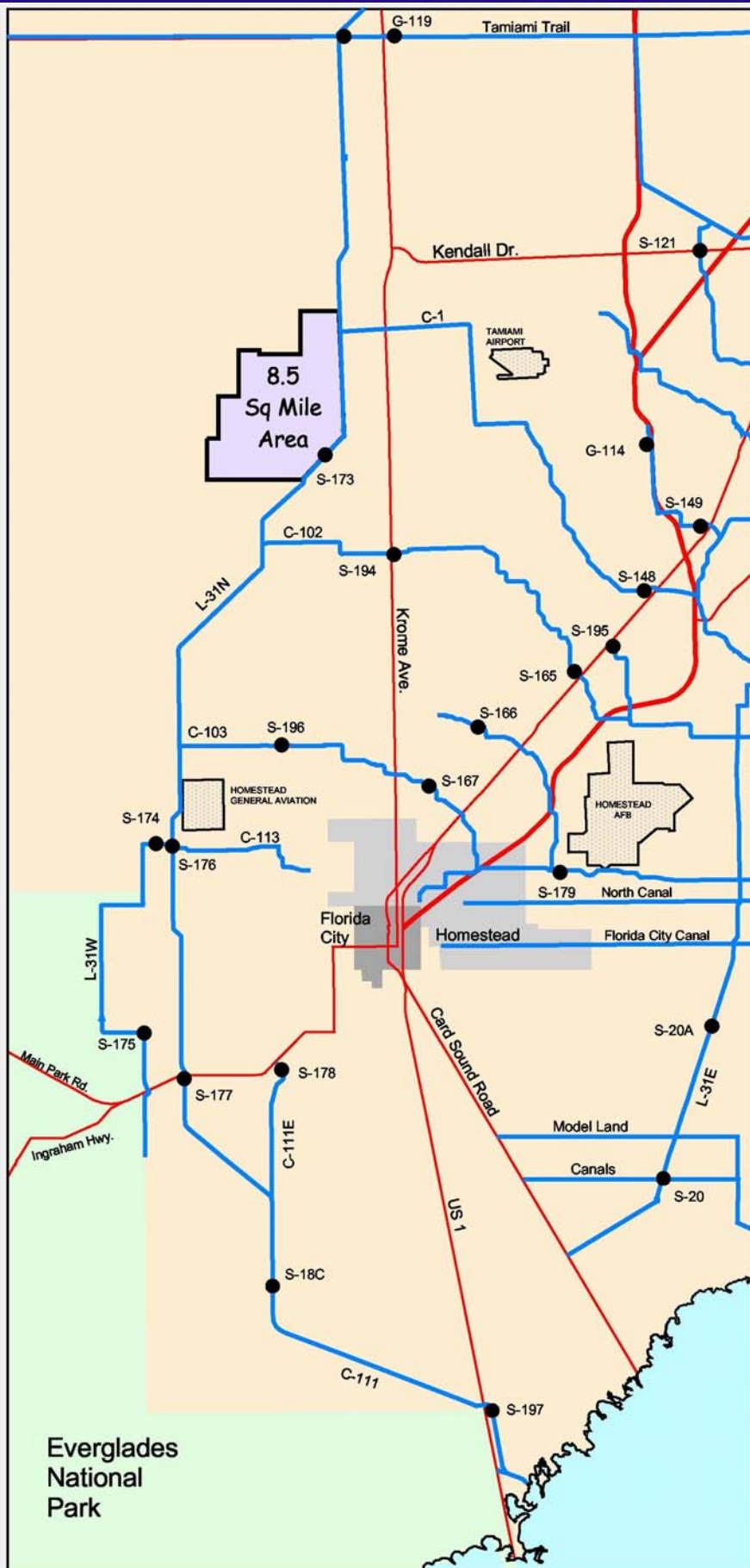


### Legend

- Water Control Structure
- Major Canals
- Major Roads

# Canal System from 1965-1982

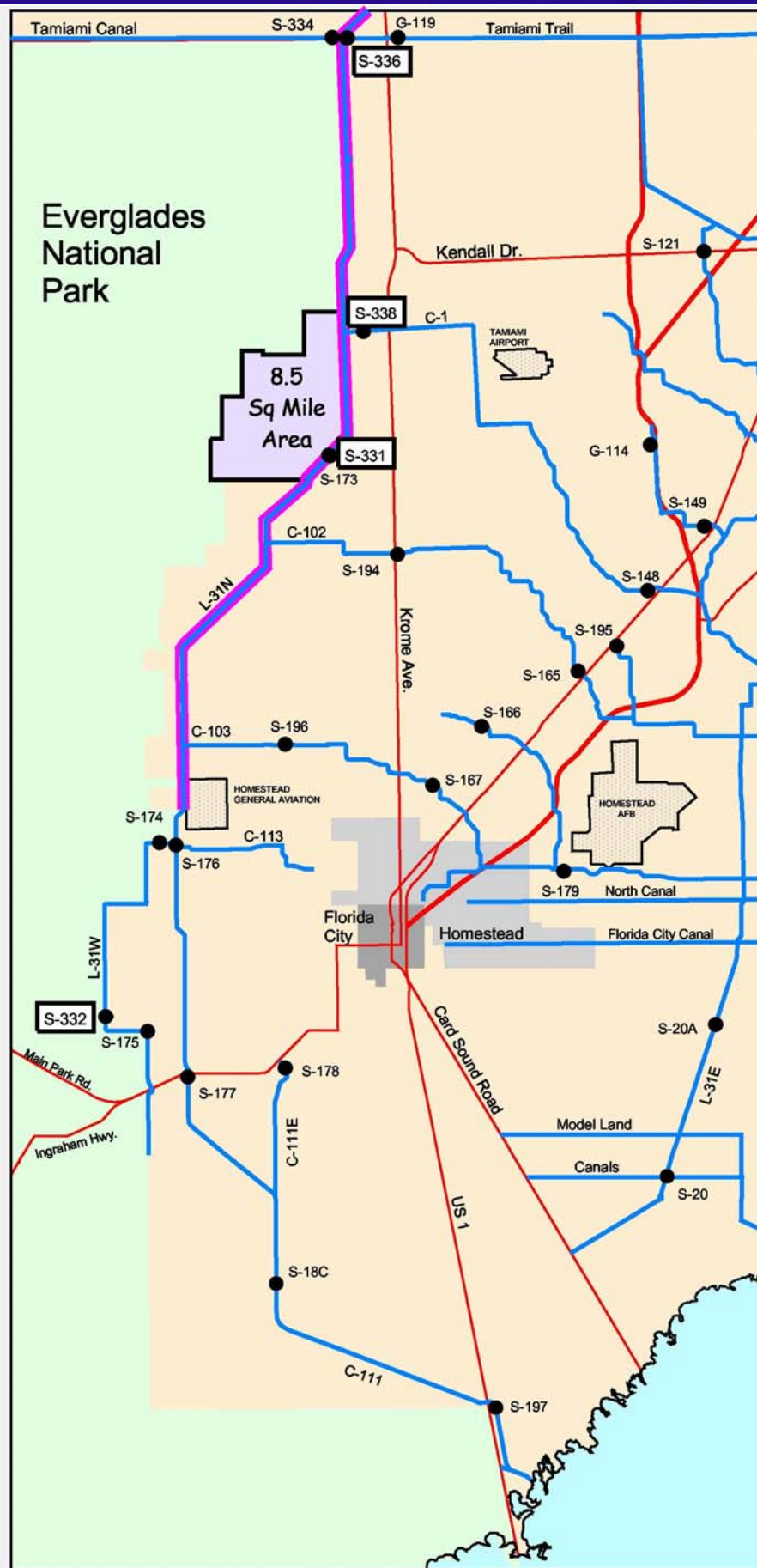
## So. Dade System Operational



### Legend

- Water Control Structure
- Major Canals
- Major Roads





# Canal System from 1982-2000

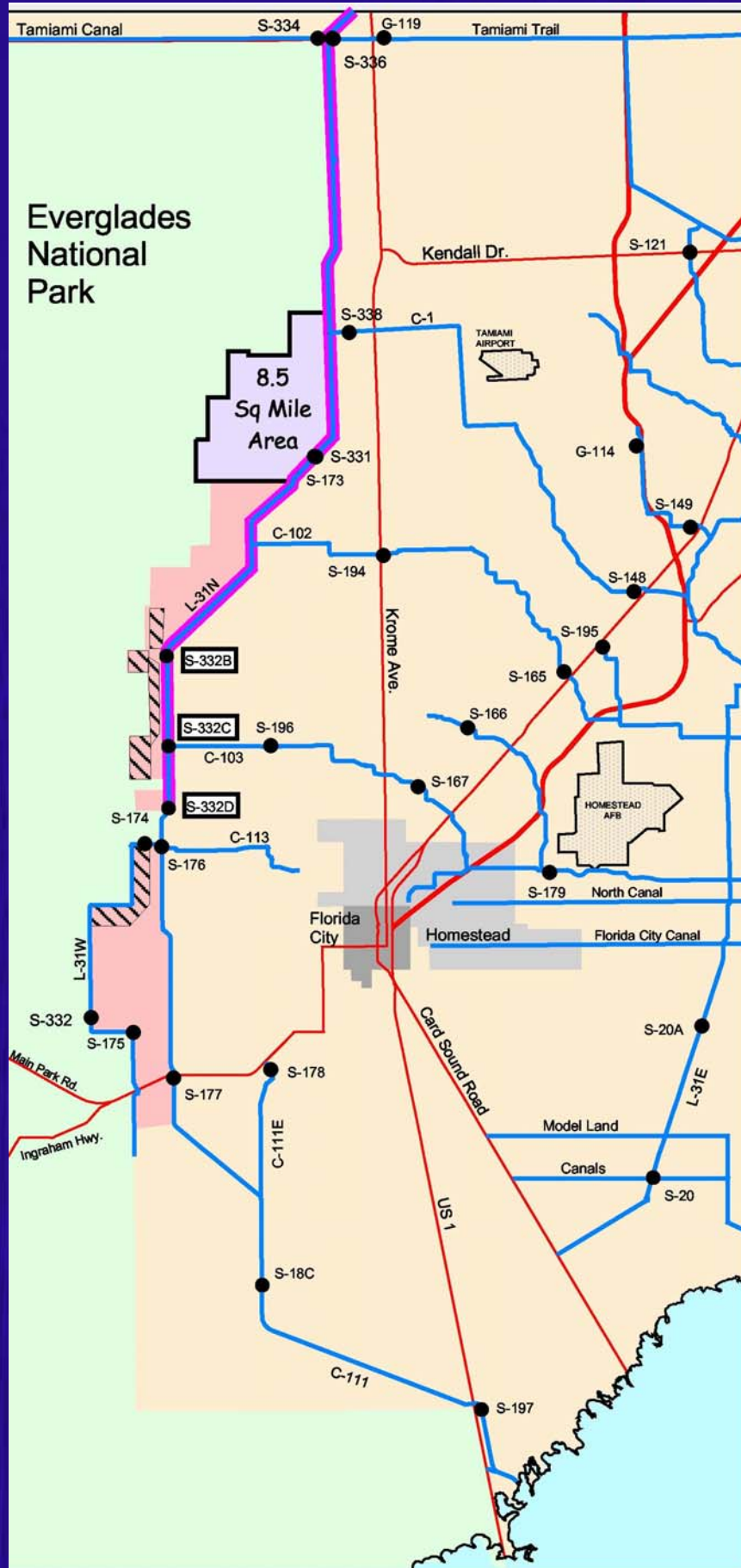
## So. Dade Conveyance System

### Legend

- Water Control Structure
- Major Canals
- Major Roads
- Major Canal Enlargement
- S-33x New Water Control Structures

# Canal System as of 2002

## C-111 GRR



### Legend

- Water Control Structure
- Major Canals
- Major Roads
- Major Canal Enlargement
- S-33x New Water Control Structures
- Future Purchase
- Current Purchase



# **PROJECT OPERATIONS**

## **Routine Operations 1968 – 1977**

Wet Conditions in 1968 and 1969

Prolonged Dry Period, 1971 – 1977

## **Transition 1978 – 1982**

Construction of the SDCS

Operational Changes after Flood

## **Compromise Operations 1983 – 1993**

Experimental Delivery Program, 1984

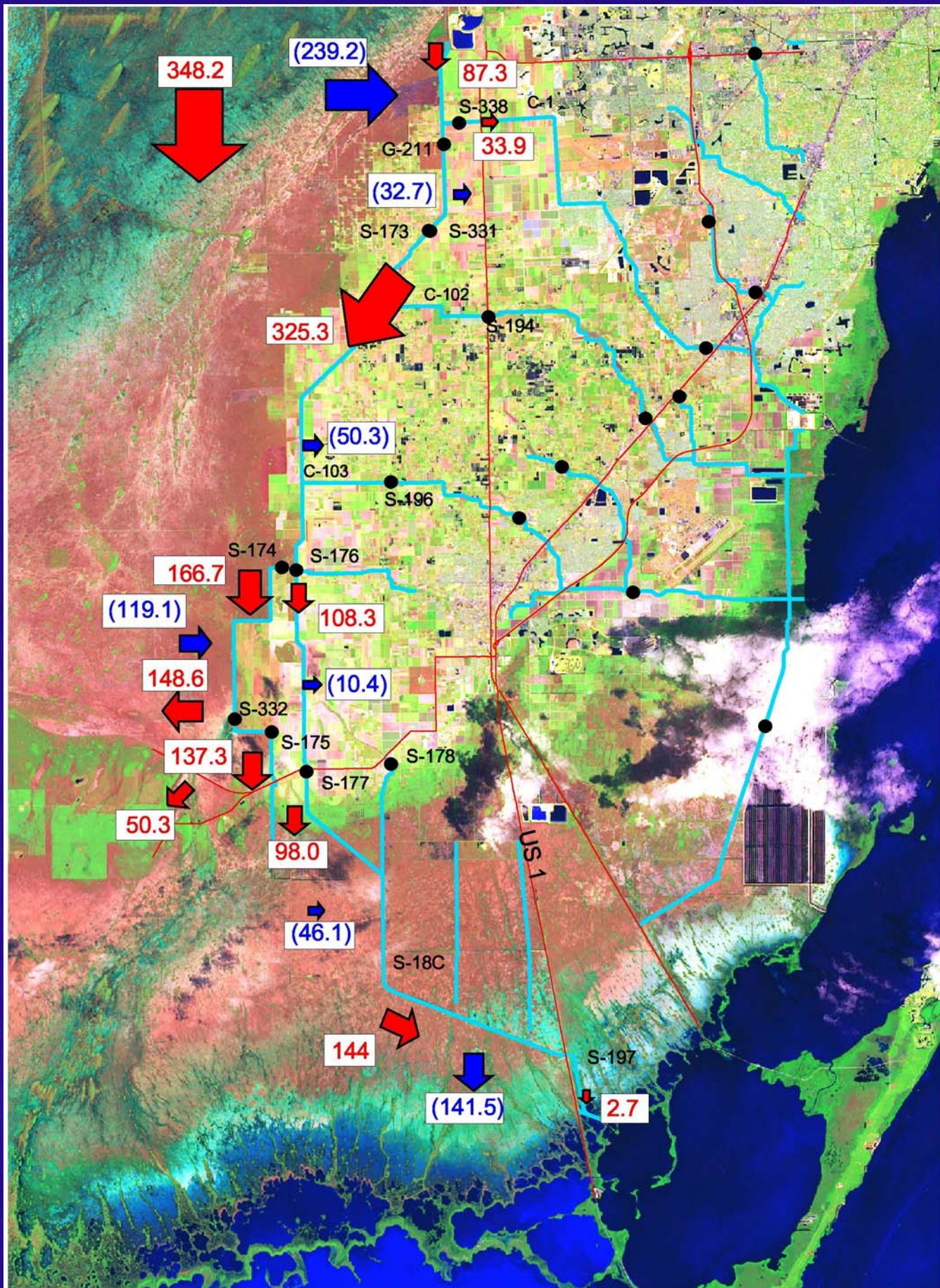
Tests 1 through 5

## **Conflict over Operations 1994 – 2001**

Test 6 and Test 7, 1994 - 1998

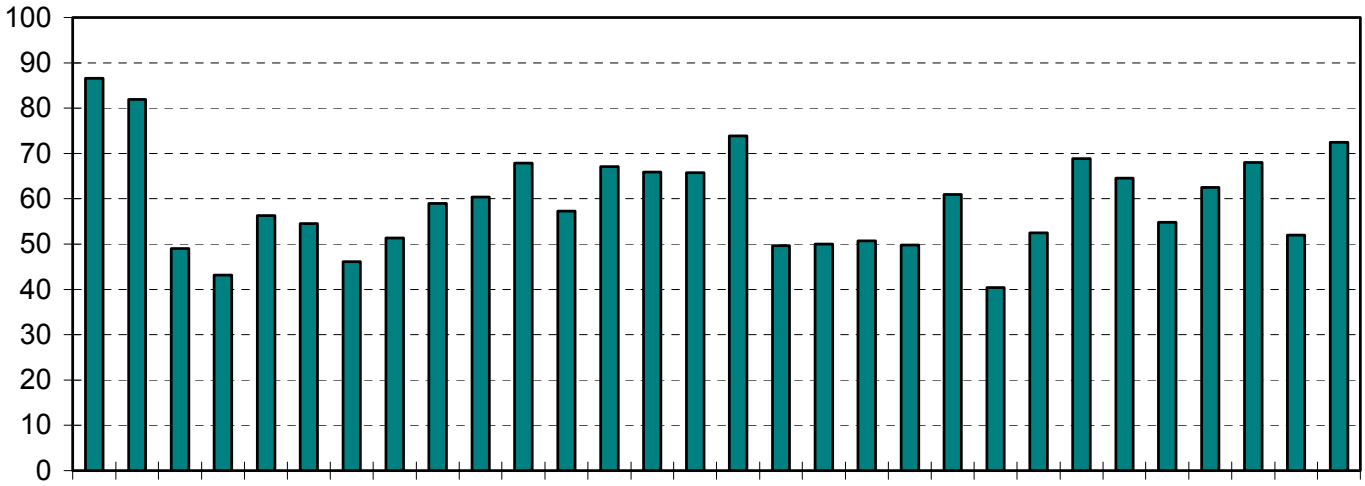
Sparrow Emergency, 1998-2001



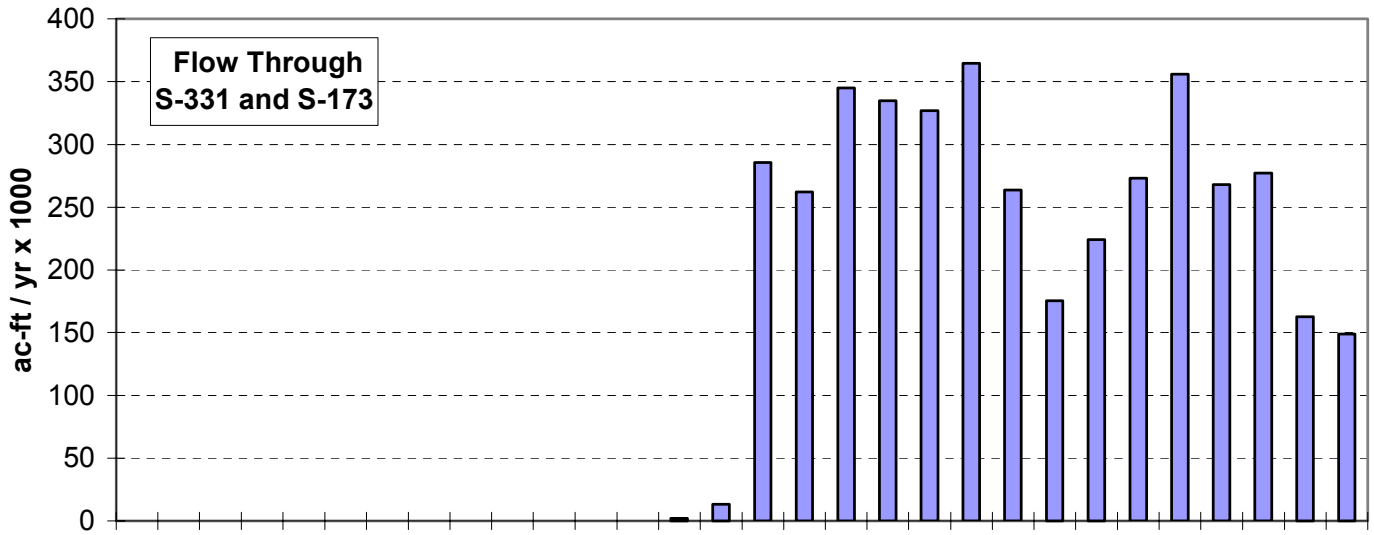




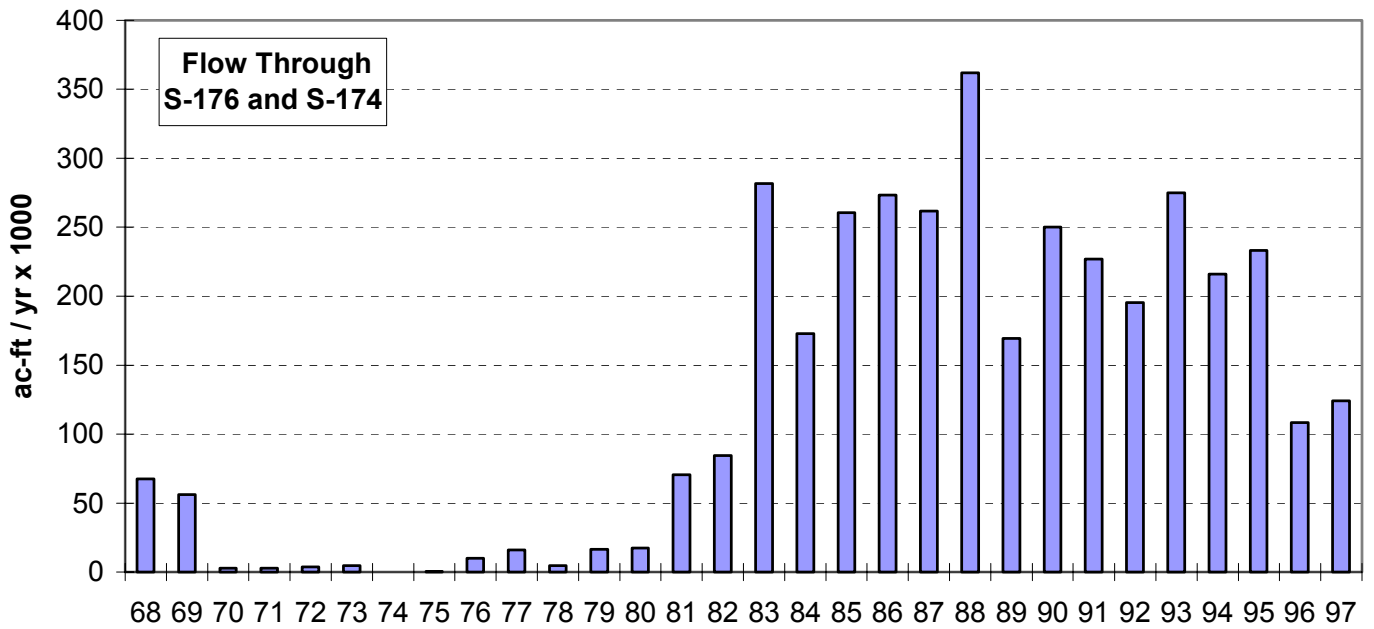
## Annual Rainfall, South Dade County (inches)



### Flow Through S-331 and S-173

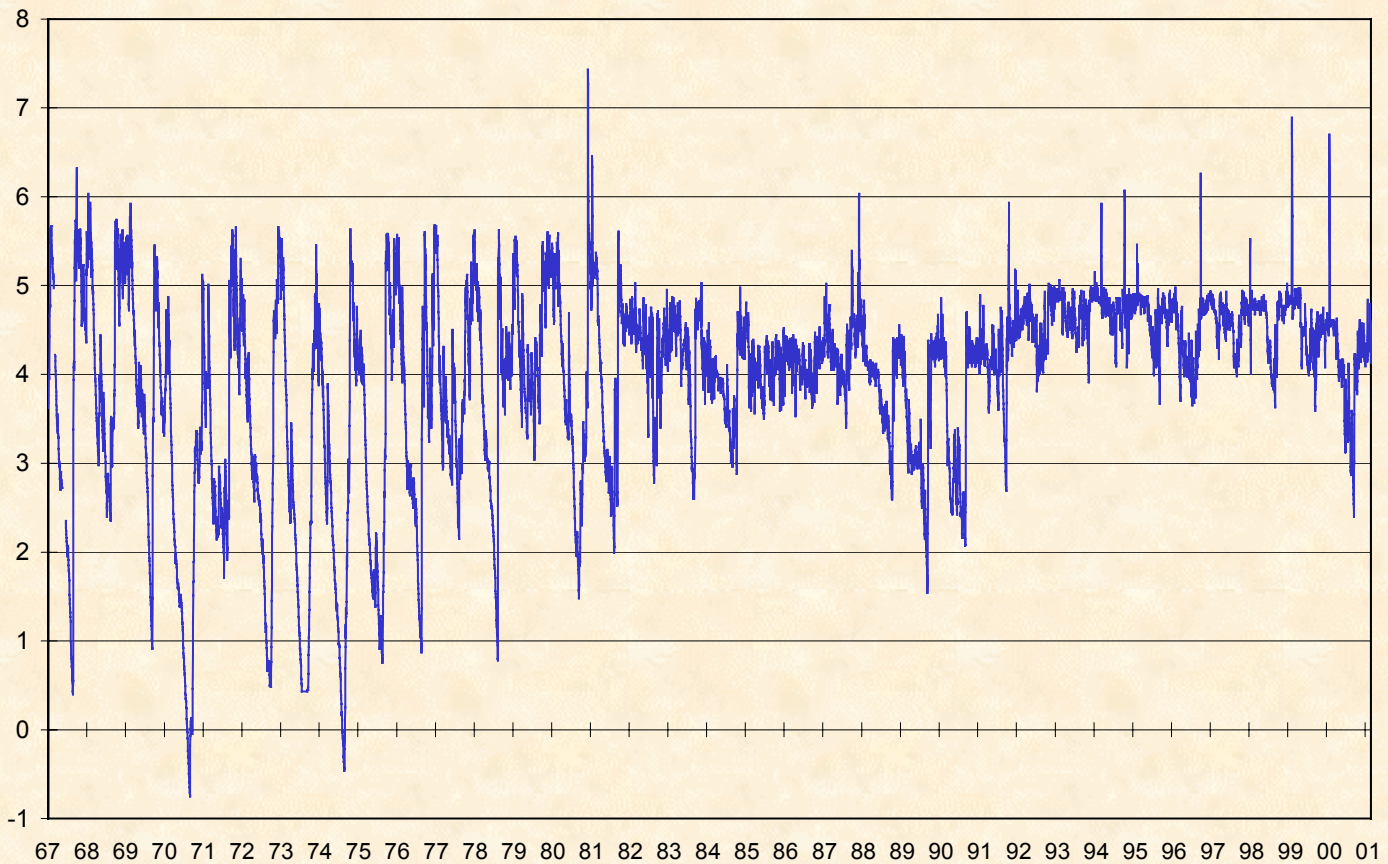


### Flow Through S-176 and S-174



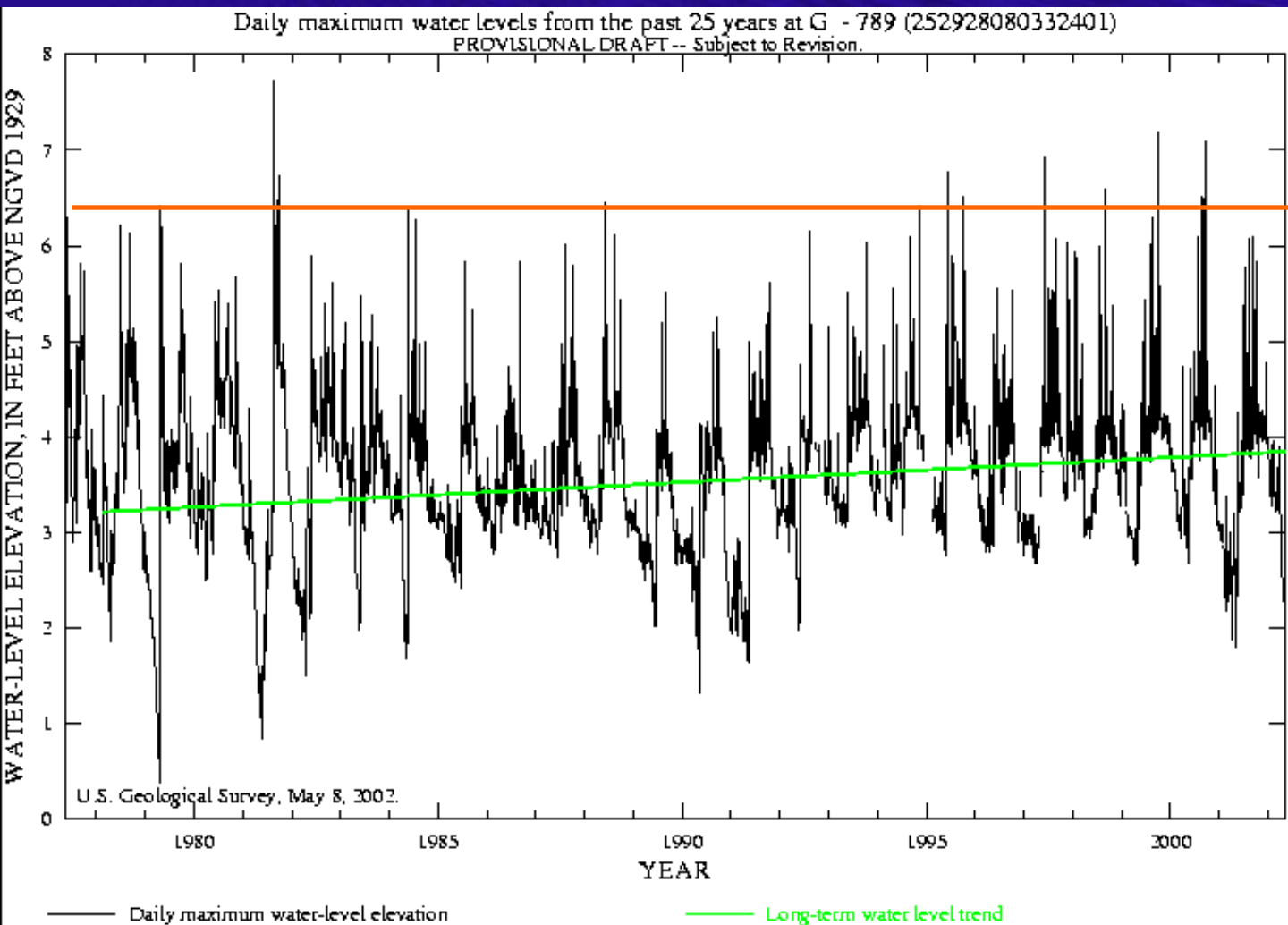


# Water Level in the Southern L-31N Canal 1967-2001



The operating rules for this stretch of canal have been the most contentious issue for the past 7 years.

# Hydrograph – past 25 years Well G-789, east of L-31N



**Clear Increasing Trend in the Water Table**  
**Water Table Above Ground 5 times since 1995**



# **Conclusions**

**The Agricultural Land Base Is Being Sacrificed in the Struggle Over How to Protect the Everglades.**

**Operation of the Canal System is Causing Damage to Existing Businesses and Contributing to the Decline of Agriculture in South Miami-Dade.**

**Process Shortcuts Have Excluded Agriculture from Meaningful Participation and Reduced the Role of Elected Officials.**